

10th of
Previous
Month
(approximate)

Month of Flow Process

10th of Next
Month
(approximate)

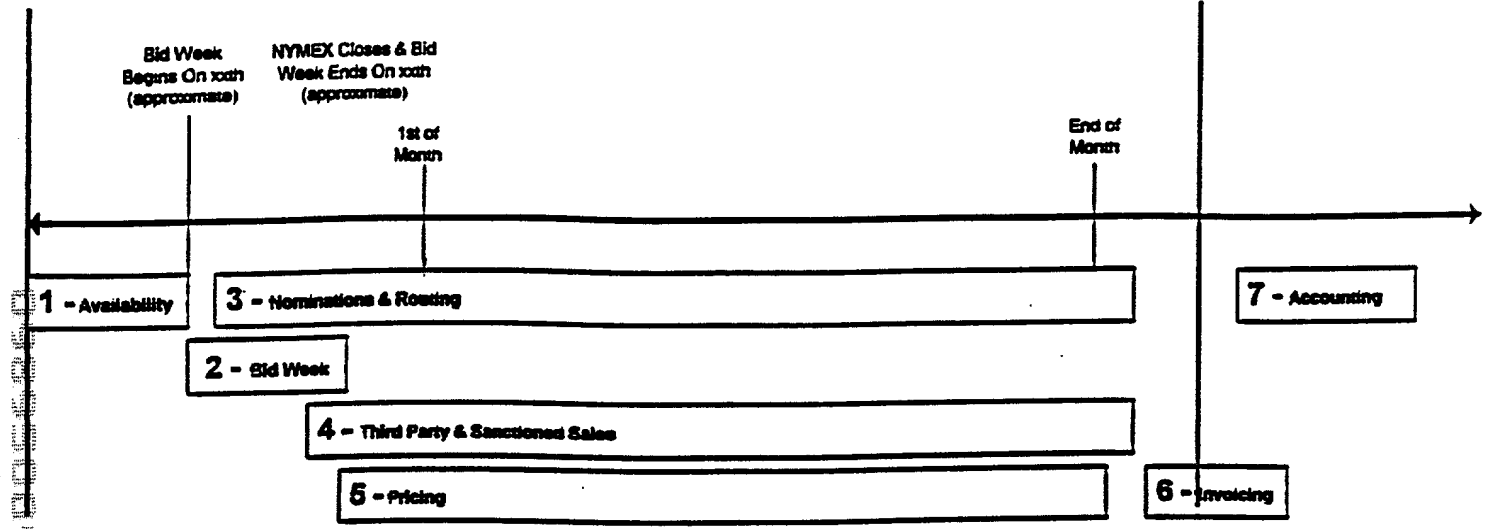


FIG. 1

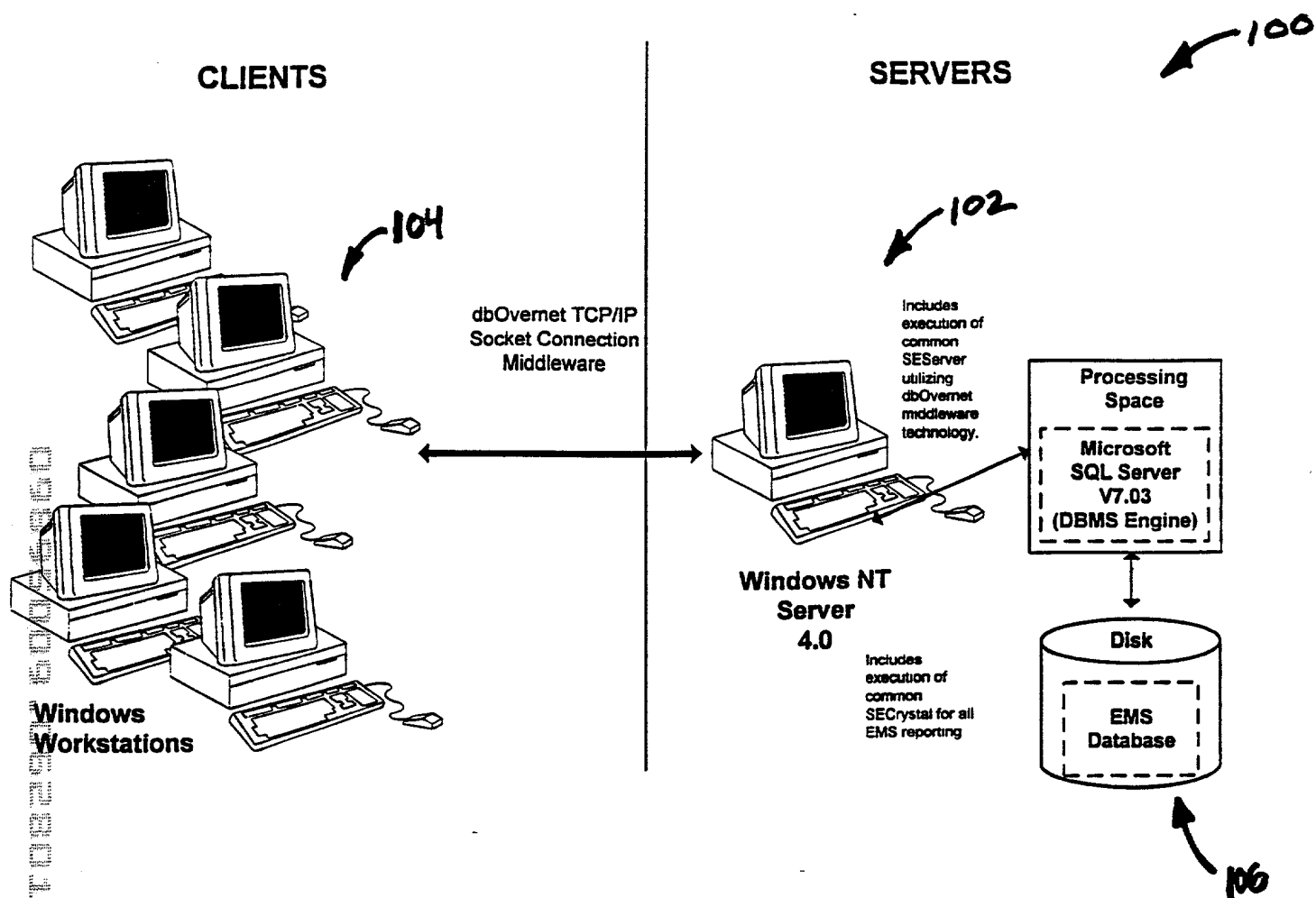


FIG. 2

Companies Subject Area (ERD)

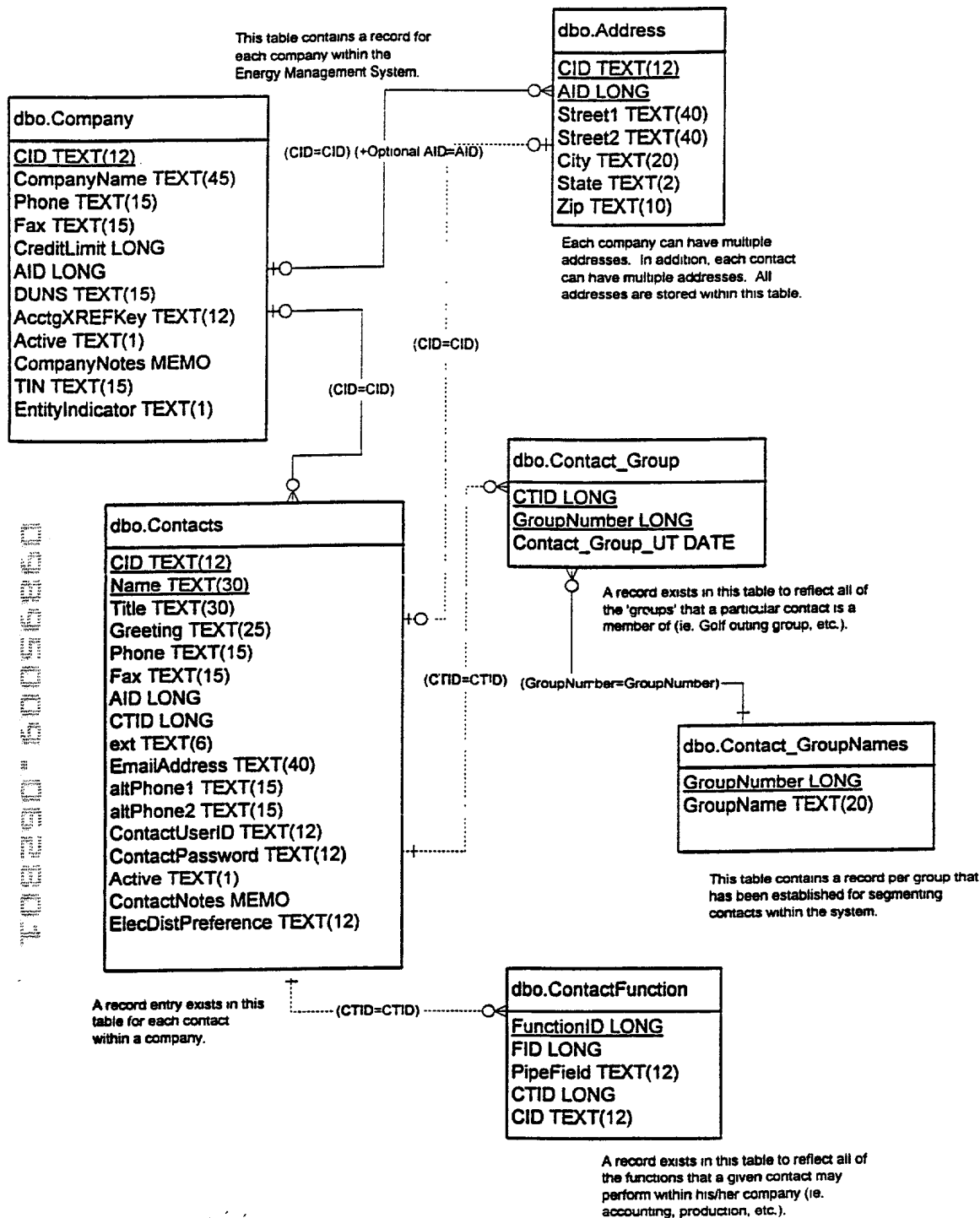


FIG. 3A

Contracts Subject Area (ERD)

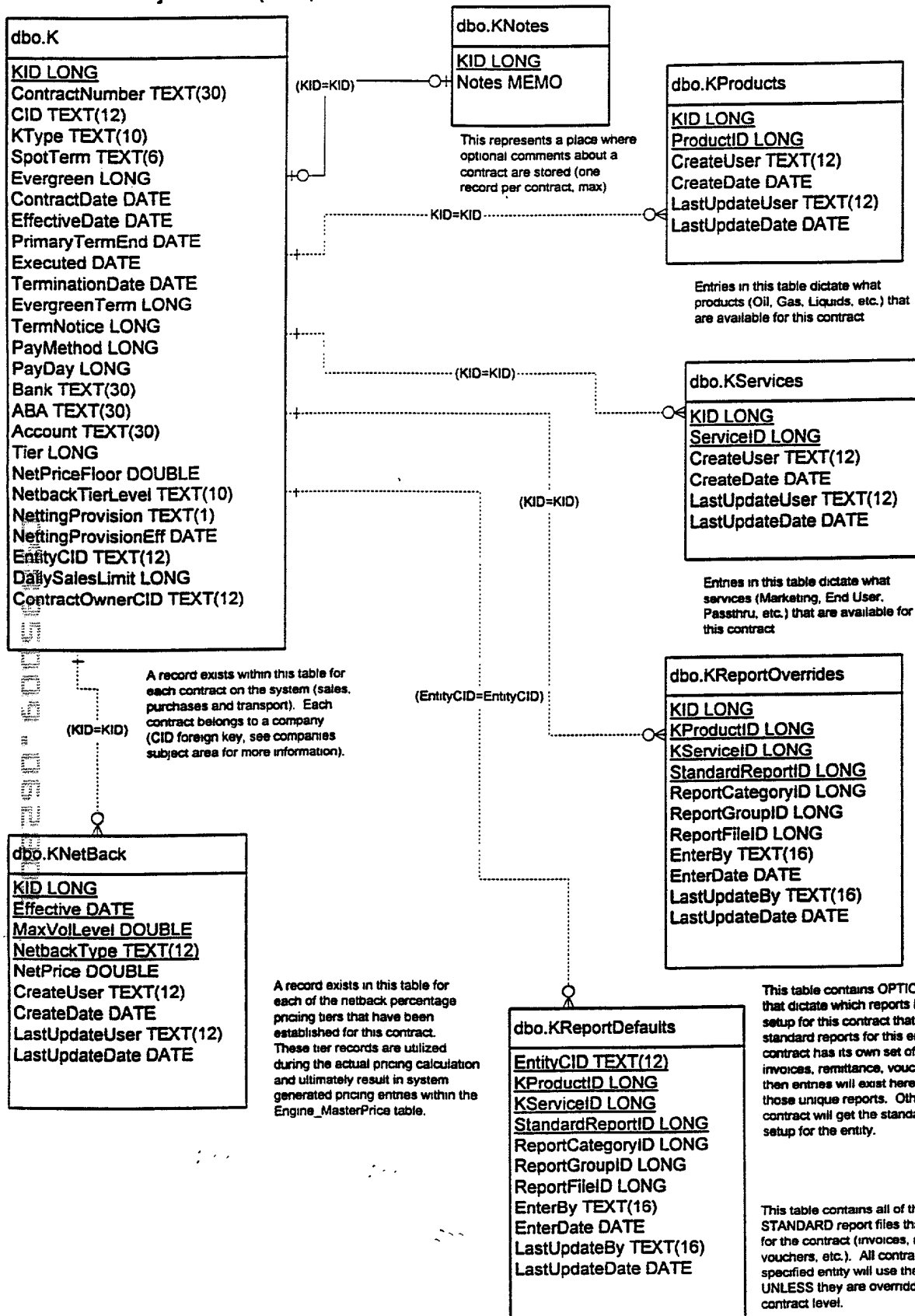
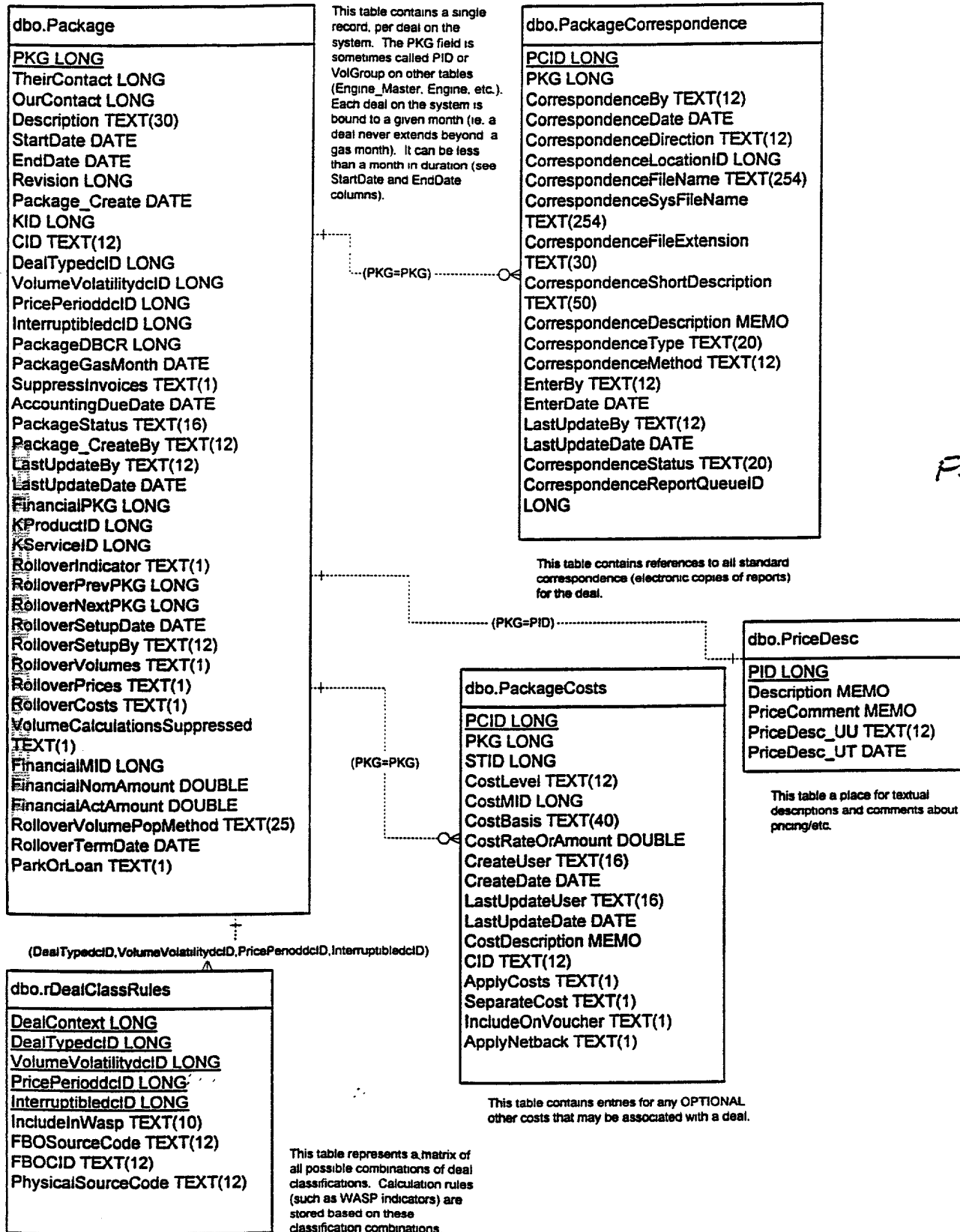


FIG. 30

Deals Subject Area (ERD) (1 of 2)



Deals Subject Area (ERD) (2 of 2)

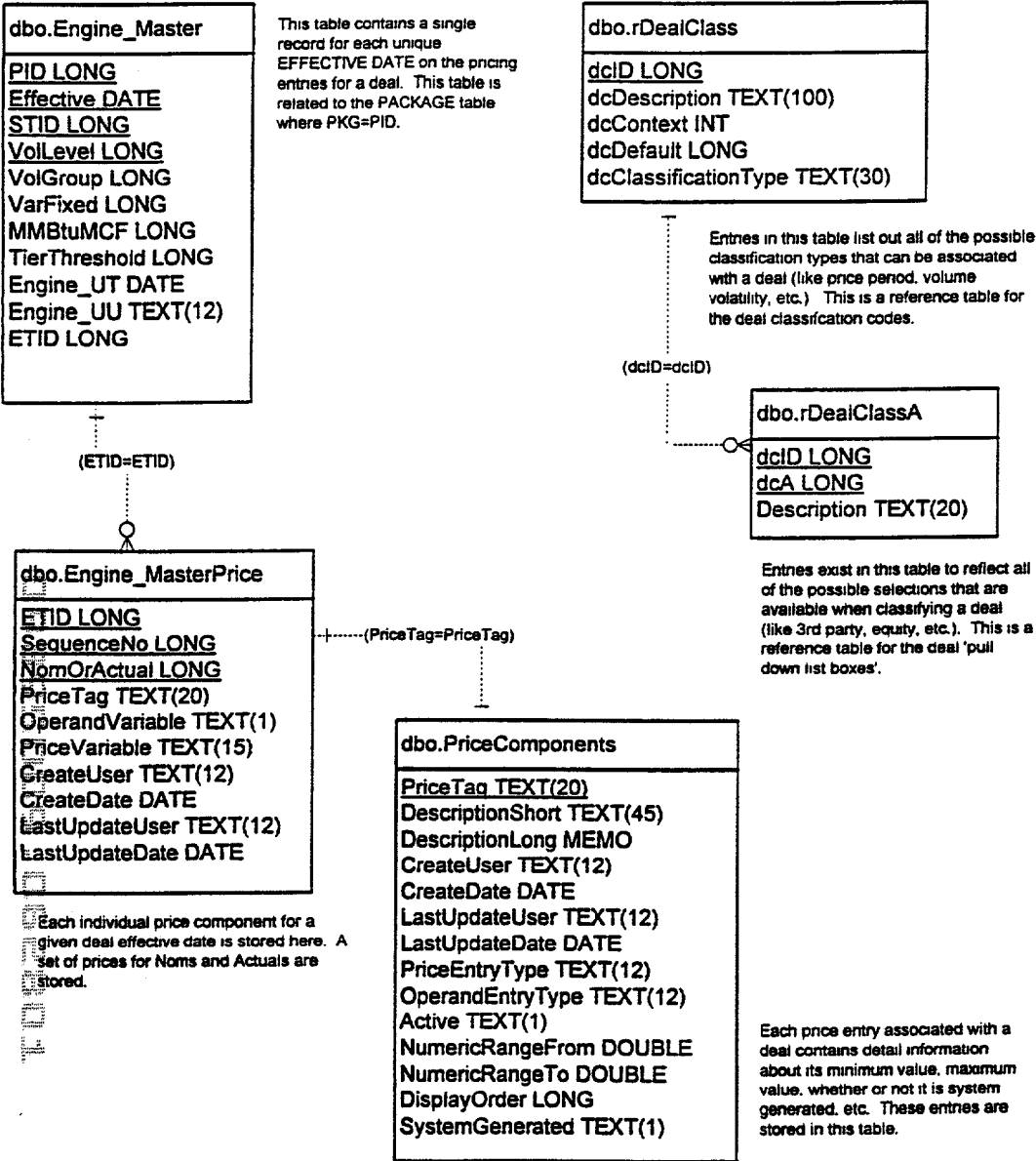


FIG. 3D

Gas Inventory Subject Area (ERD) (1 of 2)

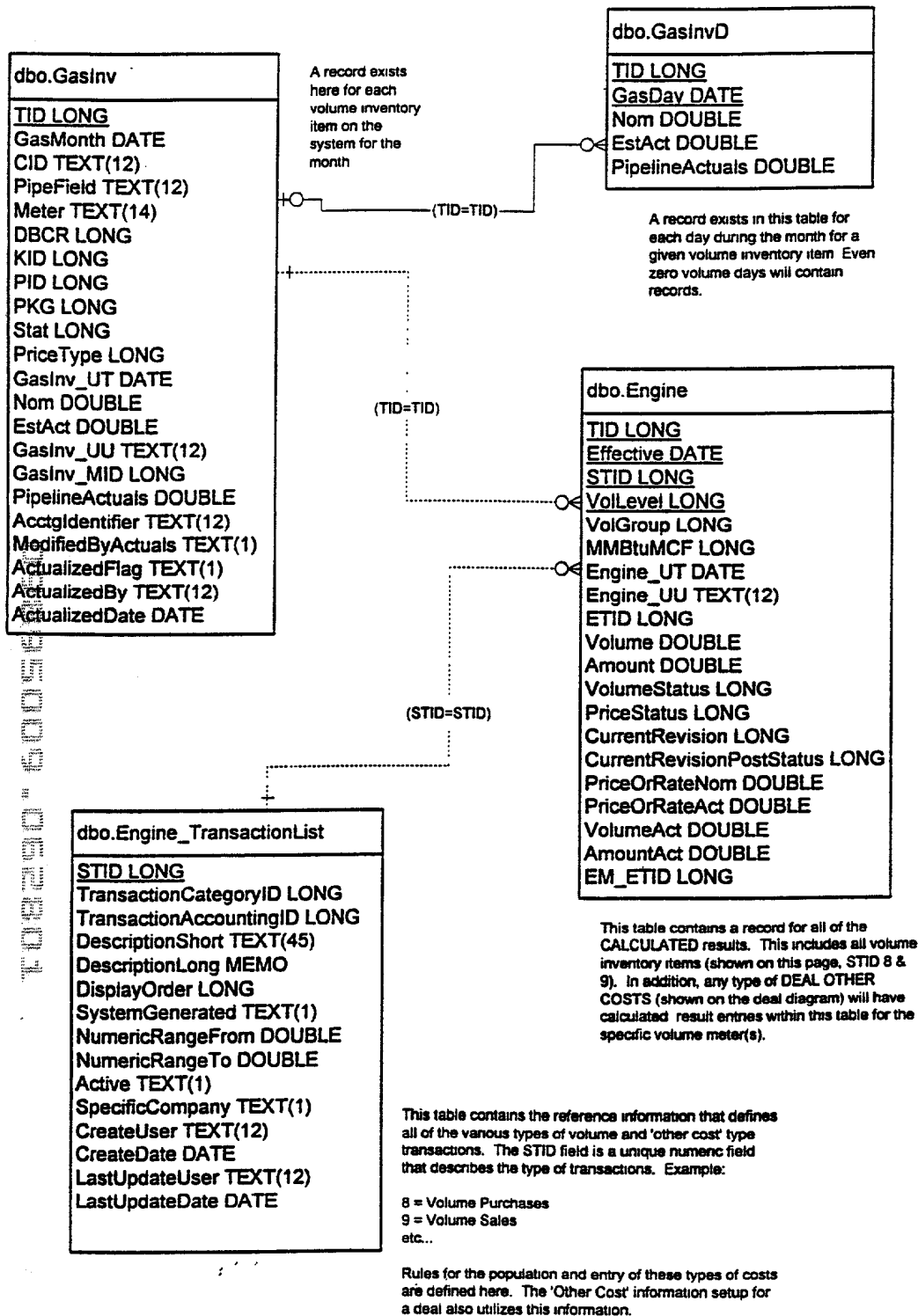


FIG. 3E

Gas Inventory Subject Area (ERD) (2 of 2)

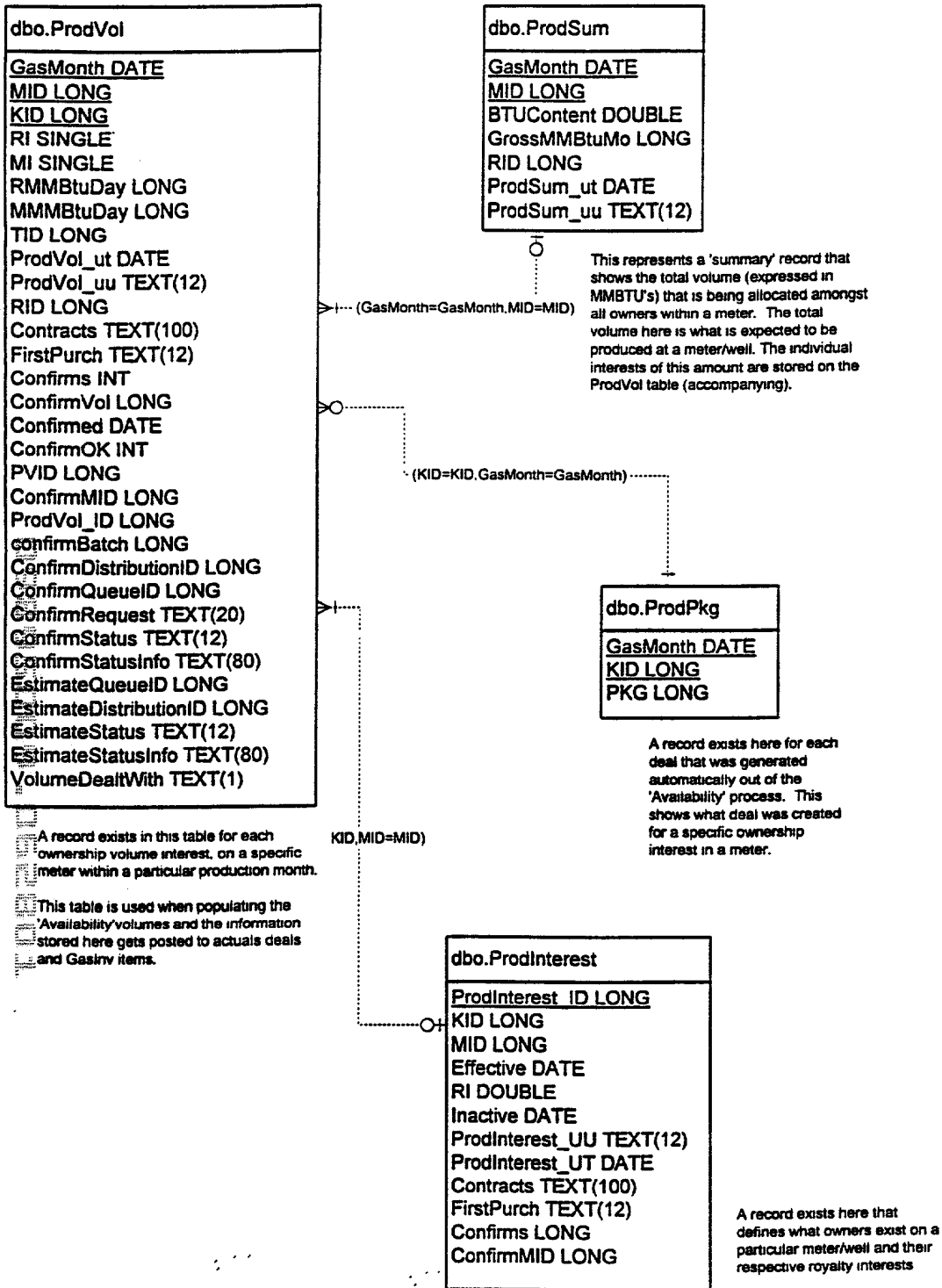


FIG. 3F

Operational Subject Area – 1 of 4 (ERD)

dbo.PrinterDef

PrinterNumber LONG
 DisplayName TEXT(80)
 ServerPrinterName TEXT(80)
 InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ApplicationMessages

ApplicationMessageID LONG
 ApplicationMessageDate DATE
 ApplicationMessageText TEXT(255)

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here).

dbo.ExceptionCategories

ExceptionType TEXT(12)
ExceptionNo LONG
 ExceptionShort TEXT(45)
 ExceptionLong MEMO
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE
 ExceptionOrder LONG

This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Deal', 'Pricing', etc.).

dbo.LogTable

LogEntry LONG
 LogDateTime DATE
 LogInfo TEXT(254)

This table is used primarily for debugging purposes and is not utilized by any screen or reporting process.

dbo.ExceptionList

ExceptionListID LONG
 ExceptionType TEXT(12)
 ExceptionKey LONG
 ExceptionDate DATE
 ExceptionSequence LONG
 ExceptionEvent TEXT(45)
 ExceptionNo LONG
 ExceptionBy TEXT(12)
 ExceptionComments MEMO
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE

This table contains the actual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (ie. PKGID would be the key for ExceptionType = 'DEAL').

dbo.rGasMonth

GasMonth DATE
 CurrentStatus TEXT(20)
 CurrentSequence LONG
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE
 LockedUser TEXT(12)
 LockedDate DATE

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', etc.).

dbo.rGasMonthStatus

GasMonth DATE
CurrentSequence LONG
 Status TEXT(20)
 CreateUser TEXT(12)
 CreateDate DATE
 LastUpdateUser TEXT(12)
 LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

(GasMonth=GasMonth)

FSC, 3G

Operational Subject Area – 2 of 4 (ERD)

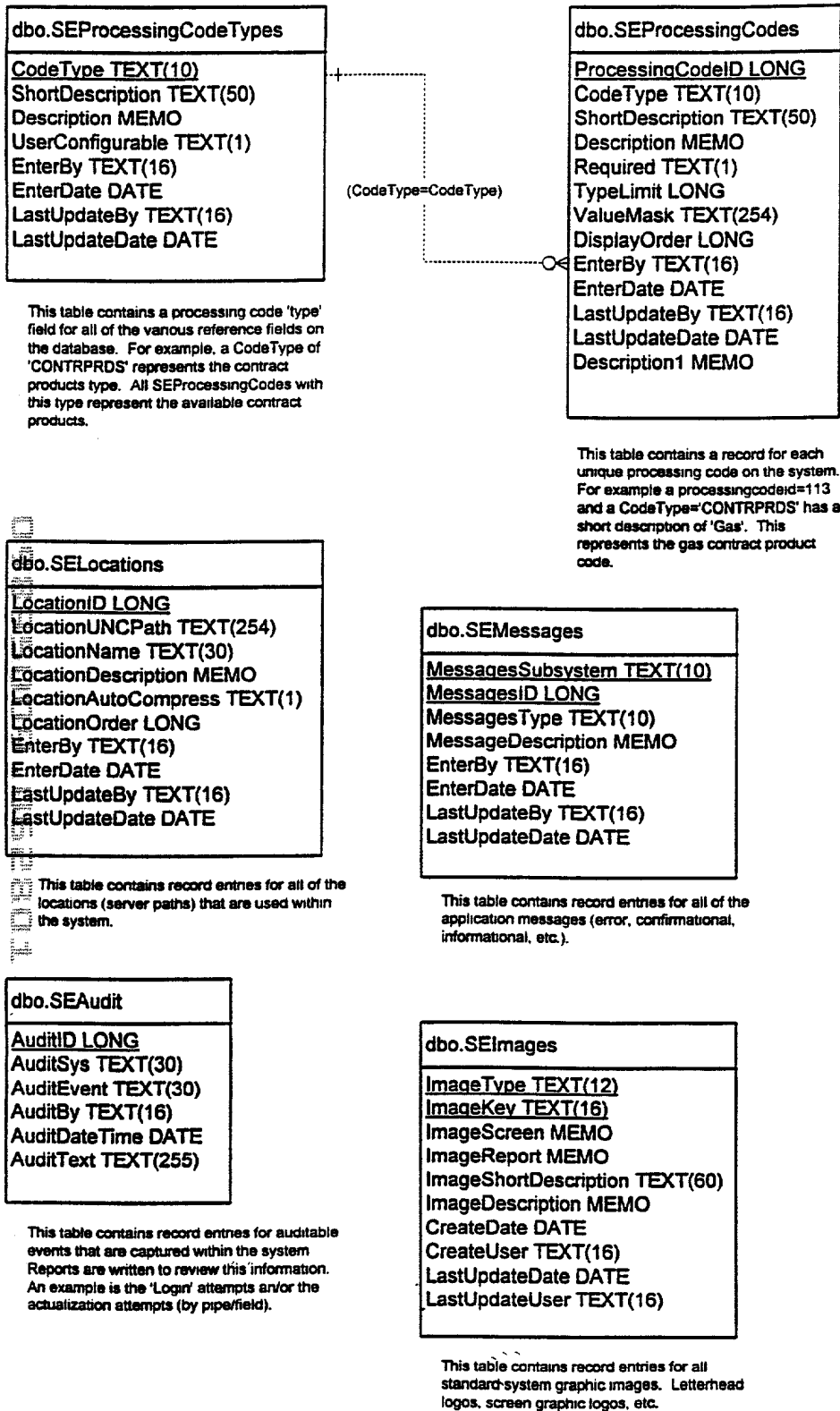


FIG. 3 it

Operational Subject Area – 3 of 4 (ERD)

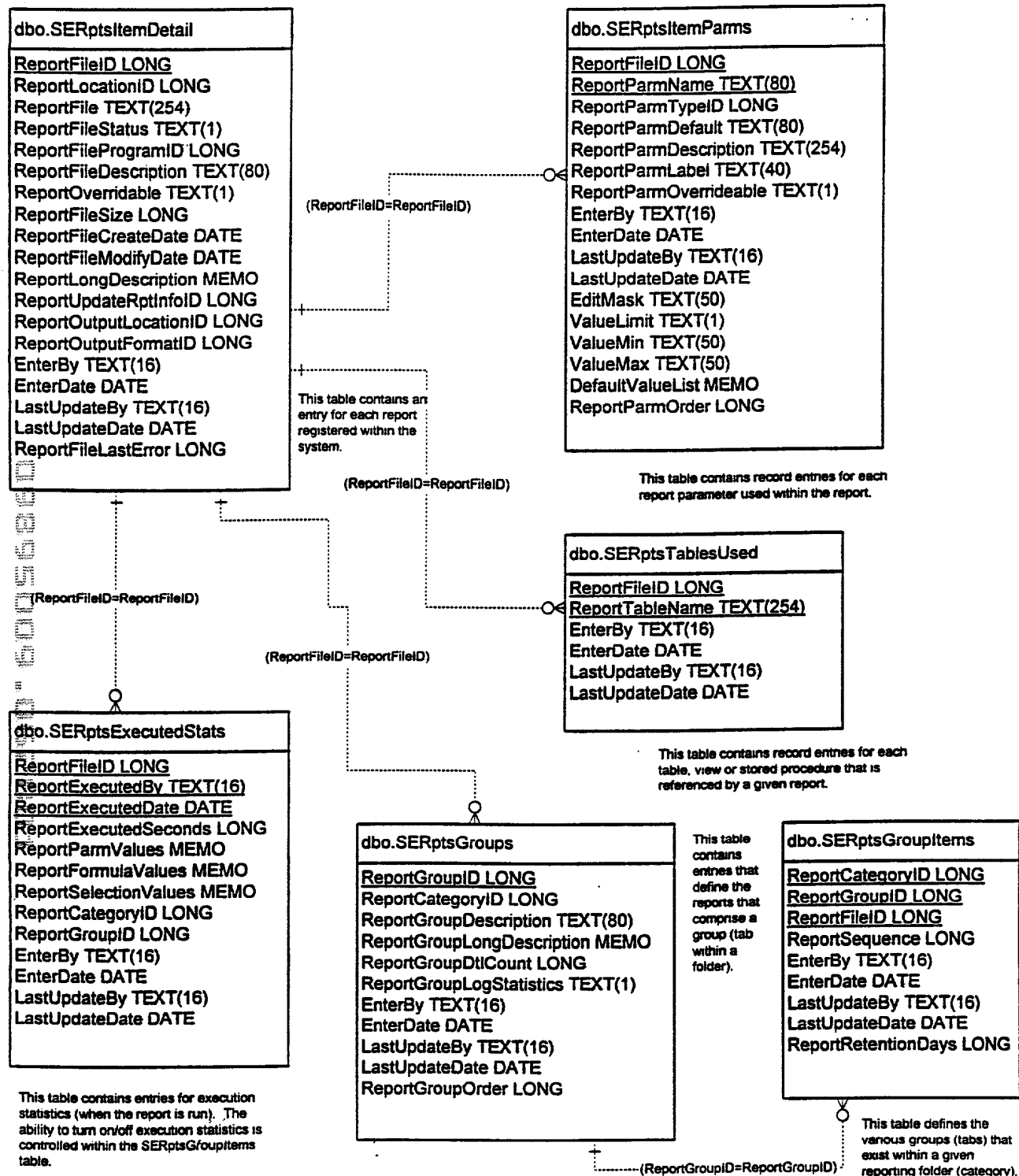
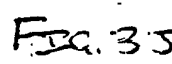


FIG. 32



Pipes & Meters Subject Area (ERD)

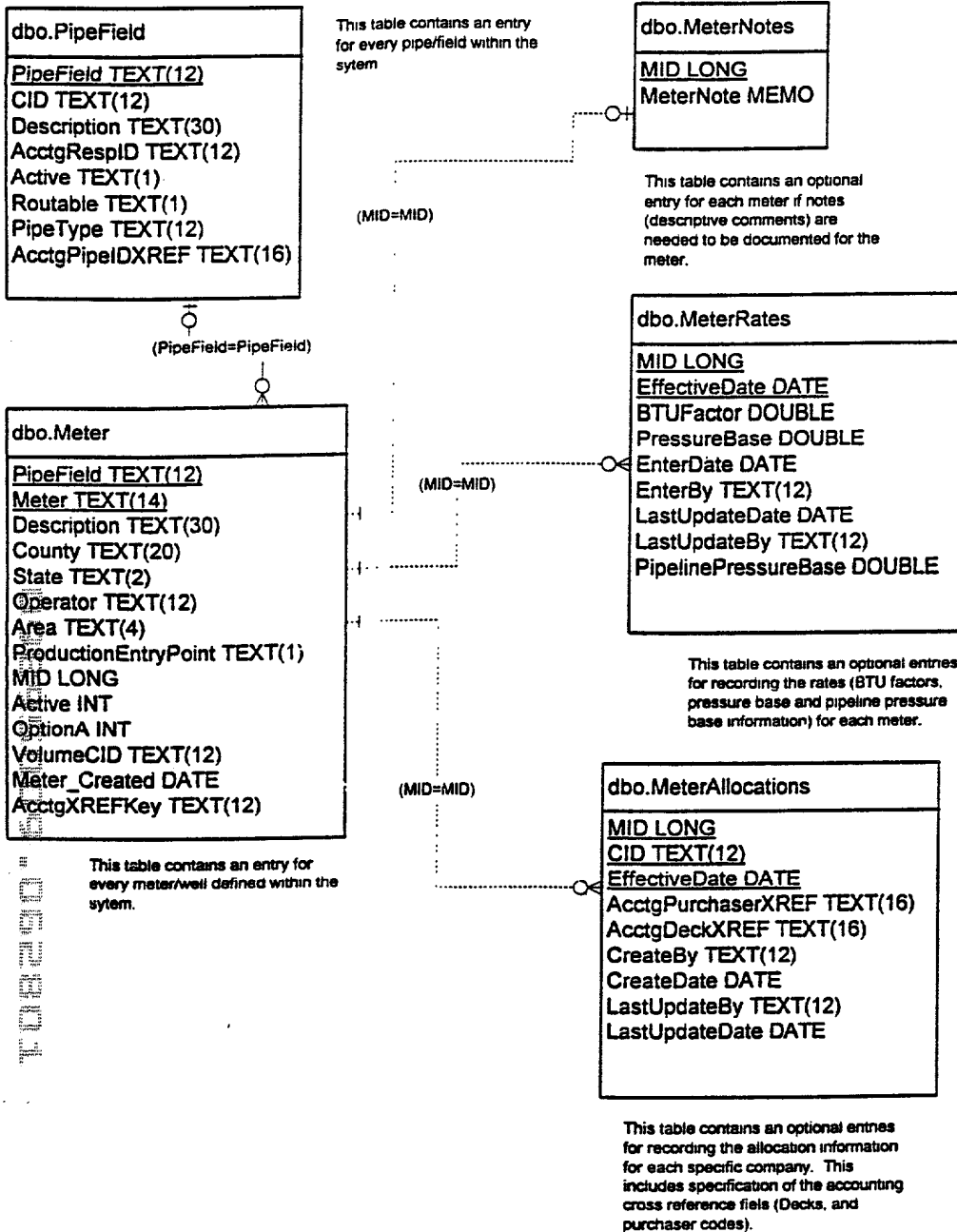


Fig. 3K

Pricing Subject Area (ERD)

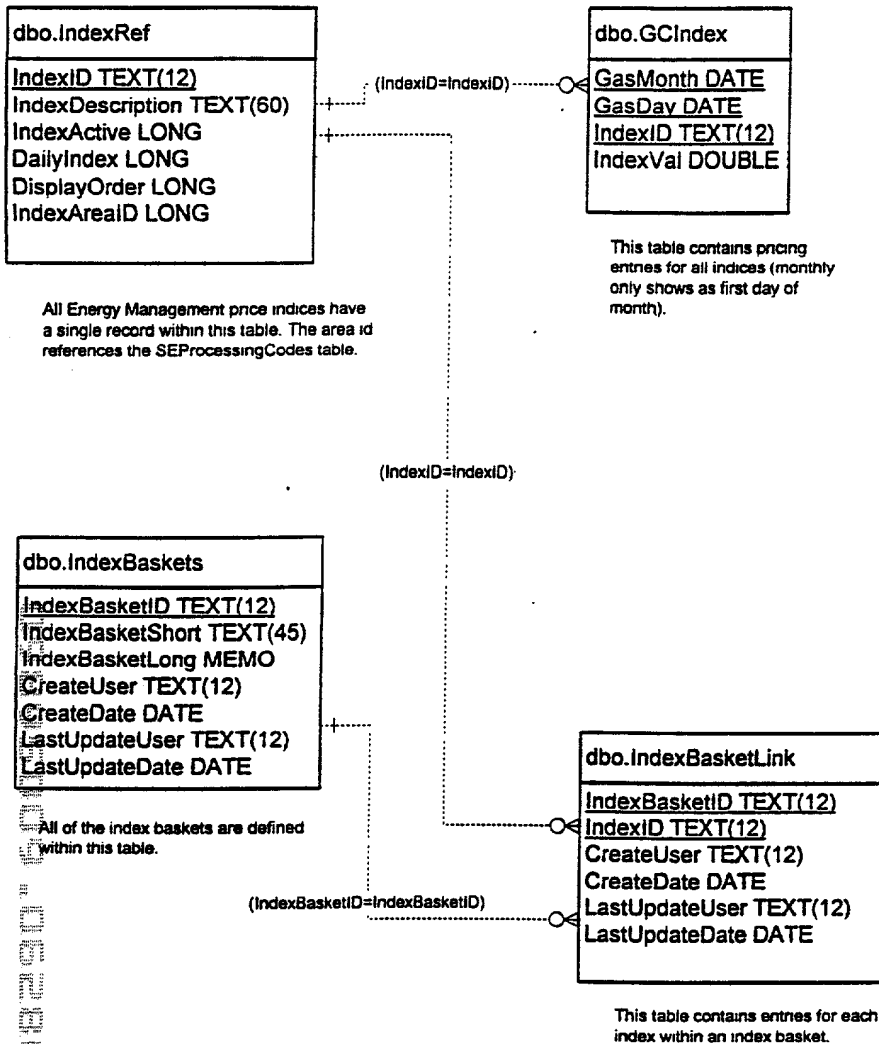


FIG. 3C

Routing Subject Area (ERD)

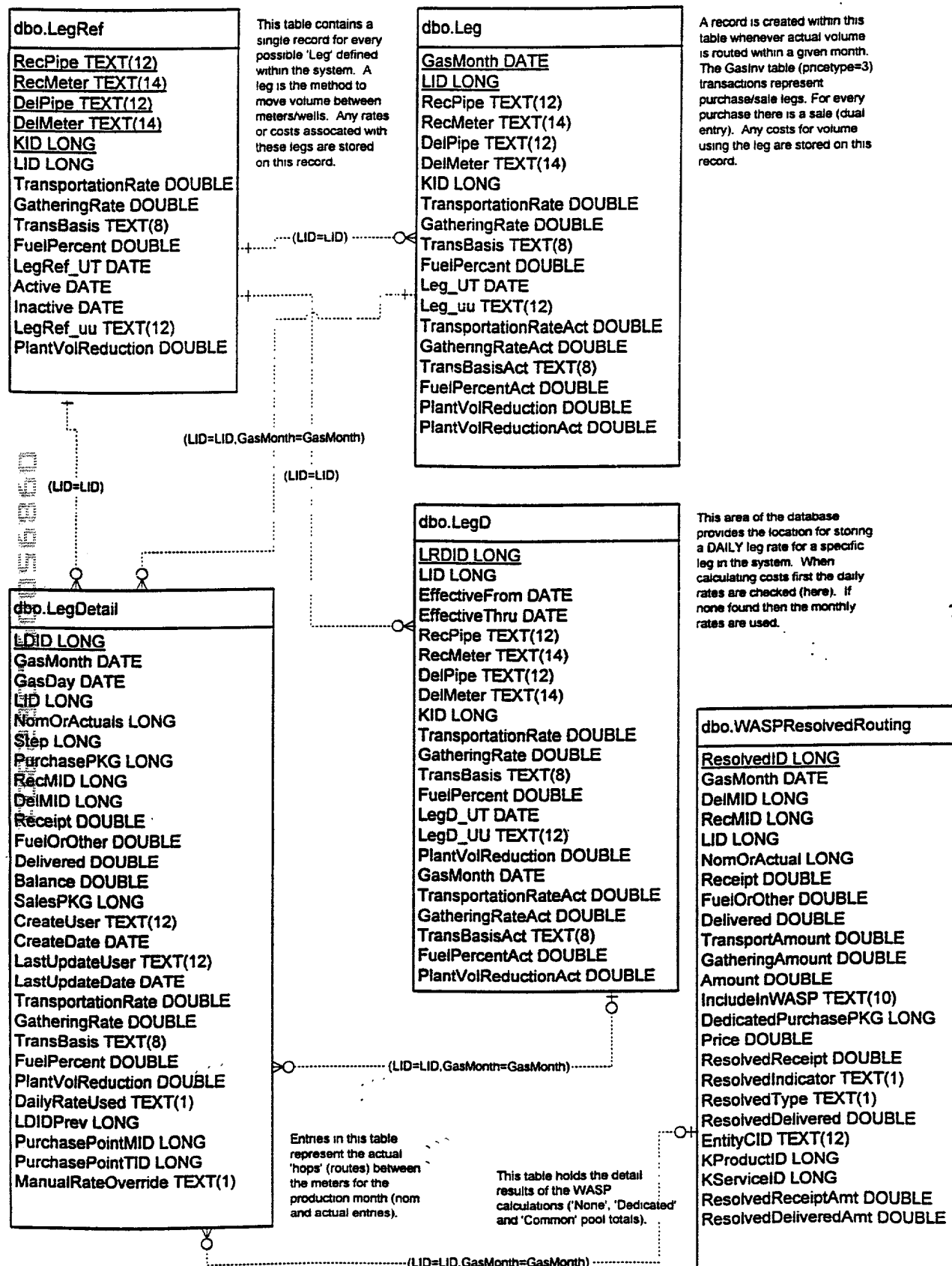


FIG. 3M

Security Subject Area (ERD)

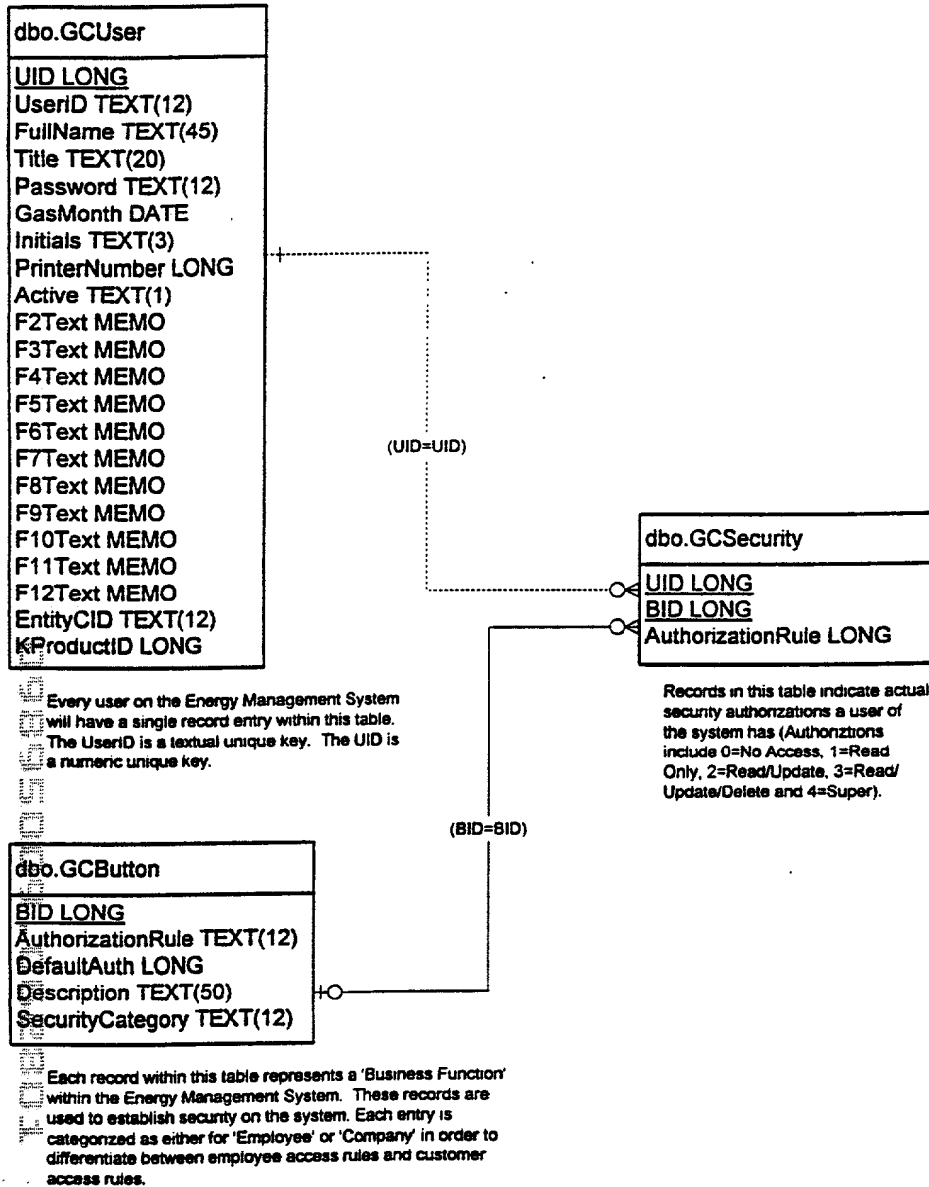


FIG. 3 N

FOB290" 60056860

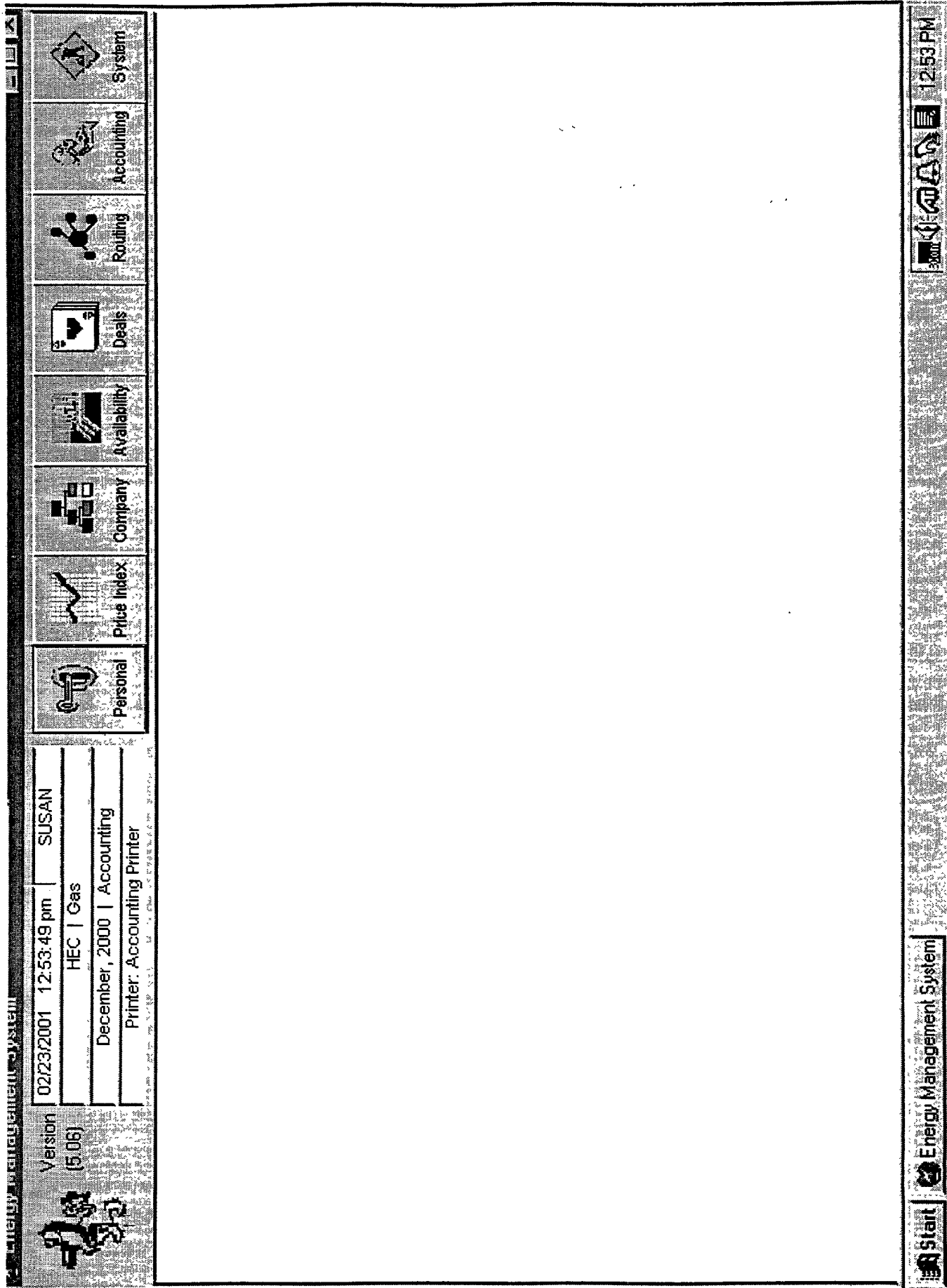


FIG. 4A

T08290" 60056860

Energy Management System

Version
(5.06)

02/23/2001 12:54:37 pm

SUSAN

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

Accounting

Routing

Deals

Availability

Company

Price Index

Personal

System

Accounting

Routing

Deals

Availability

Company

Price Index

Personal

User Profile Detail - (Change)

General

F2 Key

F3 Key

F4 Key

F5 Key

F6 Key

F7 Key

F8 Key

F9 Key

ID:

SUSAN

Full Name:

Susan Sims

Title:

Dir. of Client Svcs

Password:

Month:

December / 2000

Entity:

HEC

Product:

Gas

Active?

☒

Initials:

SS

Printer Number:

Accounting Printer

Internal User ID:

2448

☒ OK

☐ Help...

☐ Cancel

T03290" 6055860

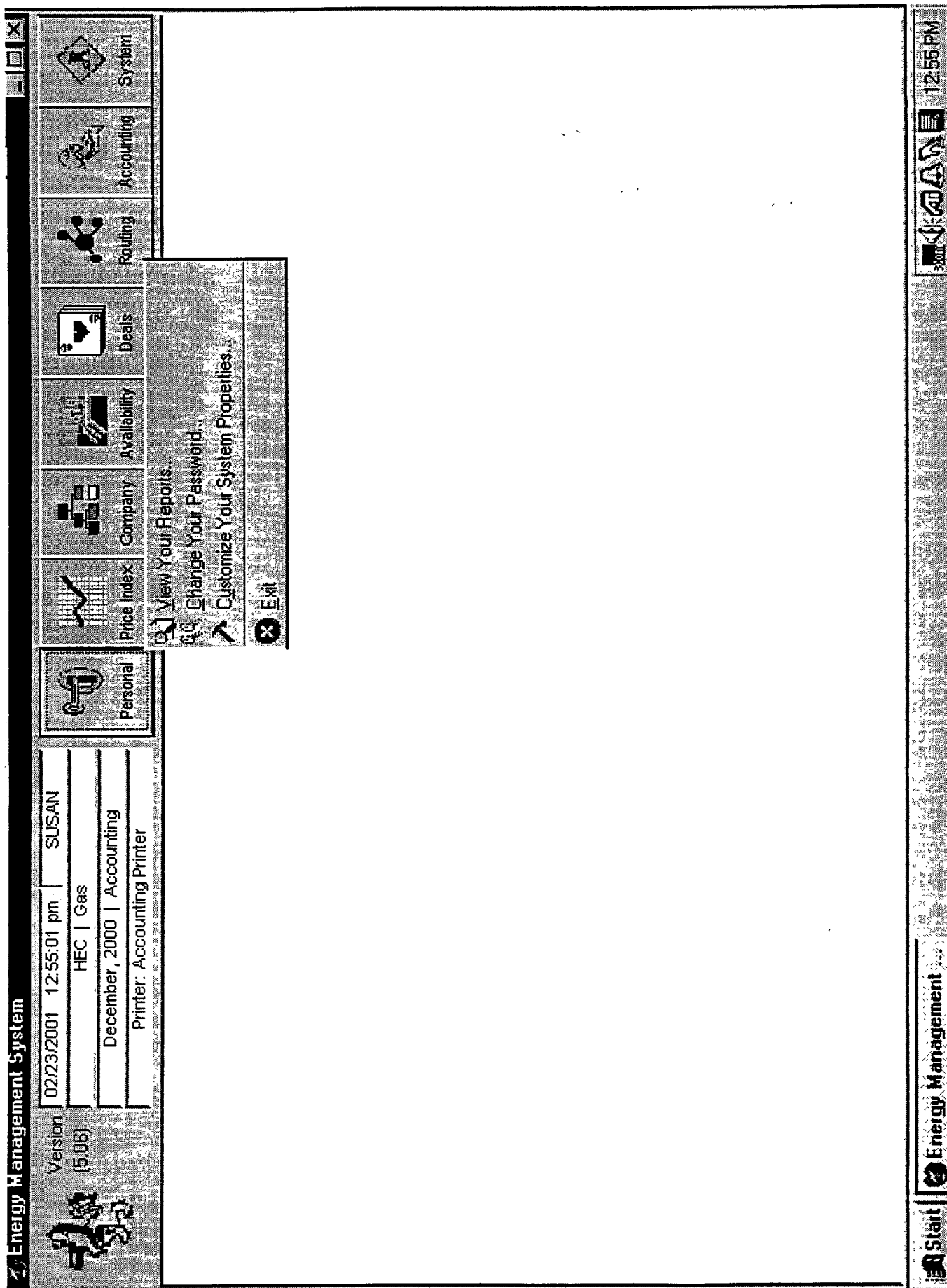


FIG. 4C

Report Viewer

Reports Submitted By You

Reports Submitted by the Scheduler

Report Name	Submit Date	Completion Status	Rolloff Date	Output Format	Error Code
Purchase and Sales By Comp	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat PI	0
Deals By Business Partner	02/23/2001 12:50:50 PM	Completed	03/02/2001 12:50:50 PM	Acrobat PI	0
Supply Volumes By Supplier	02/23/2001 10:36:26 AM	Completed	03/02/2001 10:36:26 AM	Acrobat PI	0
Actualization Progress	02/23/2001 10:02:18 AM	Completed	03/02/2001 10:02:18 AM	Acrobat PI	0
Vouchers (DRAFT)	02/20/2001 03:19:53 PM	Completed	02/27/2001 03:19:53 PM	Acrobat PI	0
Vouchers (DRAFT)	02/20/2001 03:19:28 PM	Completed	02/27/2001 03:19:28 PM	Acrobat PI	0
Margin Report (By WASP Pool)	02/19/2001 01:01:56 PM	Completed	02/26/2001 01:01:56 PM	Acrobat PI	0
Margin Report (By Pipe/Field)	02/19/2001 01:01:46 PM	Completed	02/26/2001 01:01:46 PM	Acrobat PI	0
Sales Deals By Pipe	02/19/2001 10:30:35 AM	Completed	02/26/2001 10:30:35 AM	Acrobat PI	0
Deals By Business Partner	02/17/2001 02:57:05 PM	Completed	02/24/2001 02:57:05 PM	Acrobat PI	0
Sales Deals By Pipe	02/17/2001 02:53:15 PM	Completed	02/24/2001 02:53:15 PM	Acrobat PI	0
Remittance DRAFT Detail	02/17/2001 02:52:40 PM	Completed	02/24/2001 02:52:40 PM	Acrobat PI	0
Actualization Progress	02/17/2001 01:13:58 PM	Completed	02/24/2001 01:13:58 PM	Acrobat PI	0
WASP Deal Detail	02/17/2001 12:32:46 PM	Completed	02/24/2001 12:32:46 PM	Acrobat PI	0
Routing Details (Ultimate Sales)	02/17/2001 12:25:32 PM	Completed	02/24/2001 12:25:32 PM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:38:21 AM	Completed	02/24/2001 11:38:21 AM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:38:11 AM	Completed	02/24/2001 11:38:11 AM	Acrobat PI	0
WASP Deal Detail	02/17/2001 11:28:50 AM	Completed	02/24/2001 11:28:50 AM	Acrobat PI	0

Records: 18



Refresh



More



Lookup...

☒ Auto Refresh ?

(this will refresh screen automatically every 10 seconds)

Submit Date (DESC)



View...



Print...



Email...



Export...



Delete...



Help...



Exit



Energy Management ...



12:55 PM

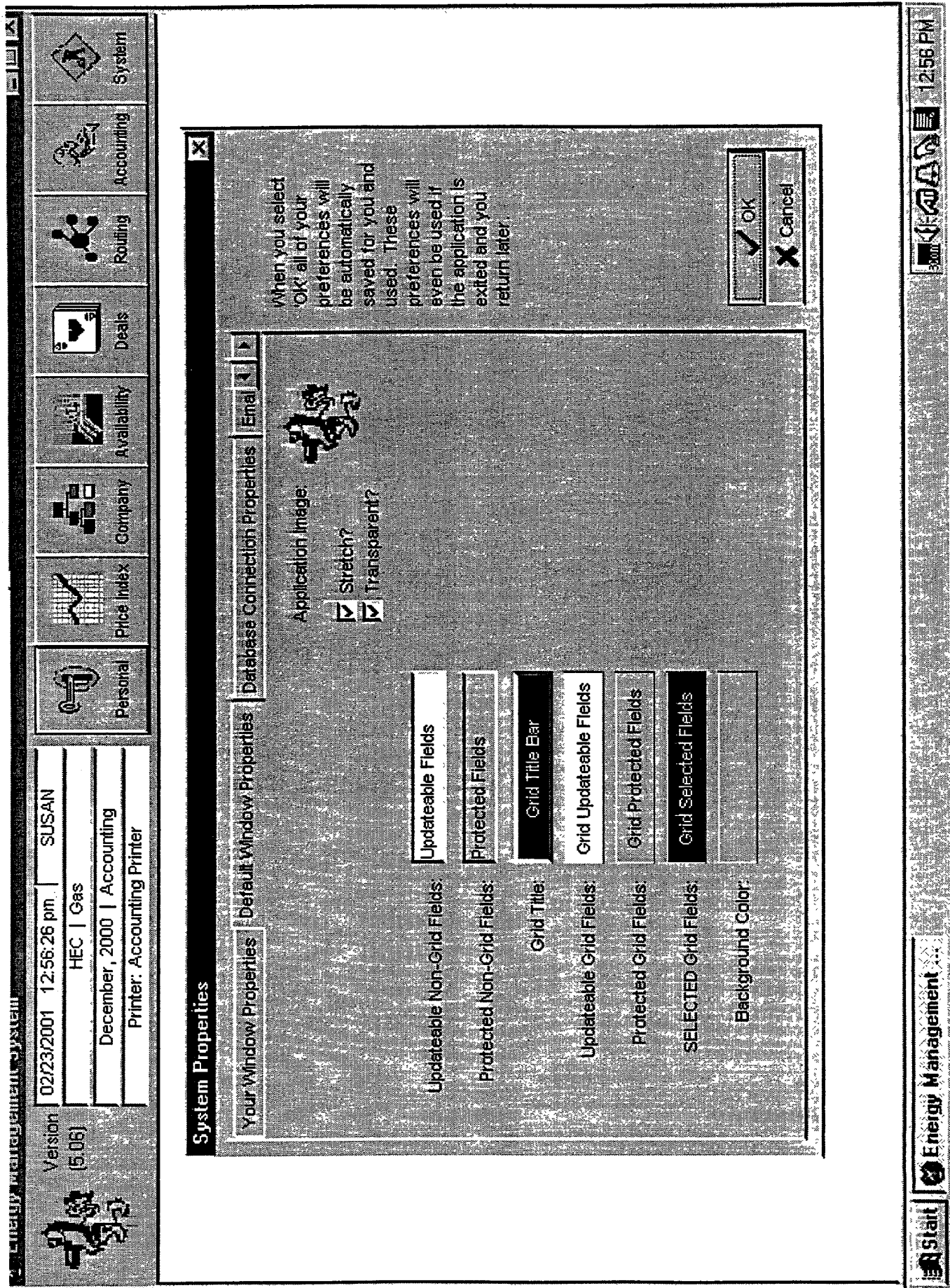


FIG. 4E

Energy Management System

Version (5.06) 02/23/2001 12:57:28 pm SUSAN
HEC | Gas
December, 2000 | Accounting
Printer: Accounting Printer

System
Accounting
Routing
Deals
Availability
Company
Price Index
Personal

Daily Index Price Updates

You may change the price (if you have security privileges)

Index	Name	Price
DGDEP(FB)1	Daily Gas Daily Midpoint El Paso Permian	\$6.2100
DGDNORTHERB	Daily Gas Daily Midpoint Northern (Kids) (6)	\$6.1550
DGDTXWYWAHA	Daily Gas Daily Midpoint Tex. Infrac. Wyna	
DGDTTRANSWMT	Daily Gas Daily Midpoint Transwestern Permian	\$6.2100
DGDCARTHAGE	Daily Gas Daily Midpoint Carthage Hub (allgate)	\$6.1750
DGDKOCH-ETW	Daily Gas Daily Midpoint Koch (Zones) (82)	\$6.0000
DGDLS-TX	Daily Gas Daily Midpoint Lone Star	\$6.0300
DGDMRT-ML	Daily Gas Daily Midpoint MRT Mainline	\$6.3150
DGDMRT-WL	Daily Gas Daily Midpoint MRT West Leg	\$6.2700
DGDNGLP-STXOK	Daily Gas Daily Midpoint NGPL TexOK (West)	\$6.2100
DGDNGLP-TXOKE	Daily Gas Daily Midpoint NGPL TexOK (East)	\$6.2050
DGDTENN-100	Daily Gas Daily Midpoint Tennessee 100 Leg	\$6.1900

Records: 211 < LOOKUP > Friday - 12/01/2000

Weekend Copy ? Help... Exit

Energy Management

Start

12:57 PM

Prices By Month

Index Prices By Month

Sources: Inside F.E.R.C.'s 'Gas Market Report' and Financial Times Energy 'Gas Daily Report'.

Monthly index prices only contain price entries on the 1st day of the month and these prices are used throughout the month.

Month:

Area or Pipe/Field:

Index:

Day	Price
12/01/2000	\$6.2100
12/02/2000	\$6.3900
12/03/2000	\$6.4800
12/04/2000	\$6.4800
12/05/2000	\$7.2900
12/06/2000	\$8.1600
12/07/2000	\$9.3100
12/08/2000	\$9.0400
12/09/2000	\$7.9600
12/10/2000	\$7.9600
12/11/2000	\$7.9600
12/12/2000	\$10.5150
12/13/2000	\$8.9650
12/14/2000	\$7.3450
12/15/2000	\$7.3650

Average 8.7053

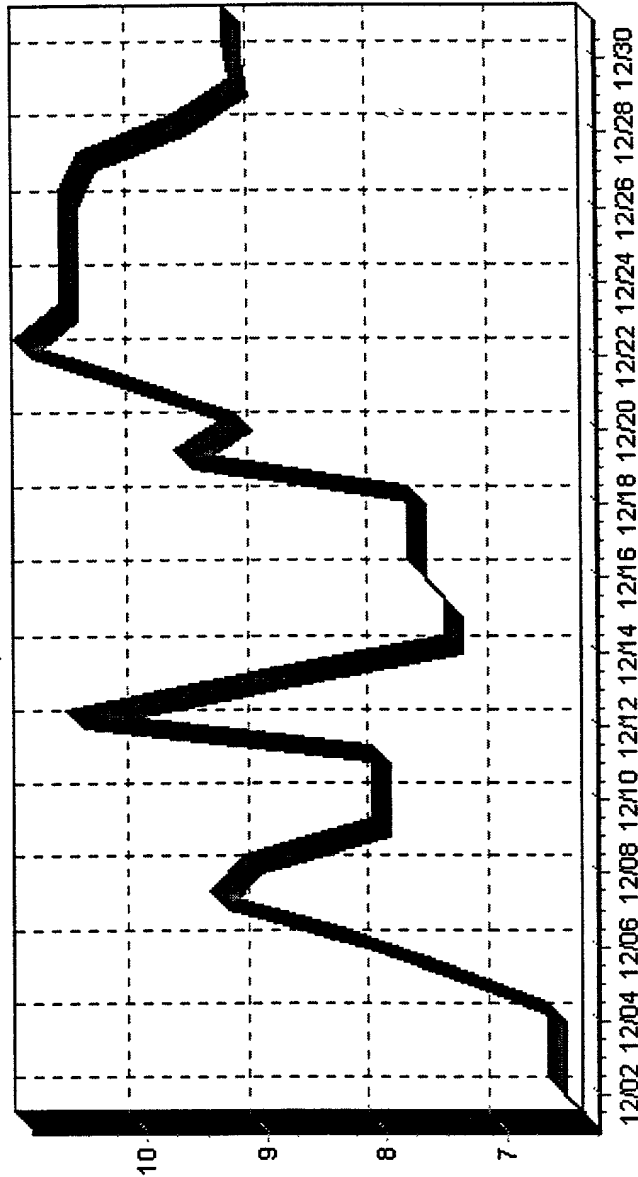
Navigation icons: back, forward, first, last, etc.

Refresh More

Day

OK Cancel

Graphical View



FOB290" 60056860

Energy Management System



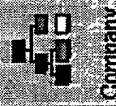




Version
(5.06)

02/23/2001 12:58:30 pm

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer



Accounting

Routing



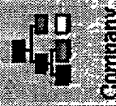





Deals

Availability

Company

Price Index

Personal



System

Accounting

Routing


Deals

Availability


Company

Price Index


Personal




Add or Update a Company...




Add or Update a Contact Person...




Add or Update a Contract...




Add or Update Contract Products...




Add or Update Contract Services...





Setup Default Standard Reports...
































Add or Update a Contact Group...



Company Reports...



Energy Management



FILED 02/23/2001 12:58:58 PM


Energy Management System			
	Version (5.06)	02/23/2001 12:58:58 pm	SUSAN
		HEC Gas	
	December, 2000 Accounting		
	Printer: Accounting Printer		
<div>Personal Price Index Company Availability Deals Routing Accounting System</div>			
<div>Enter Production Volumes... Produce Production Confirms... Availability Reports...</div>			
<div>Start Energy Management 12:58 PM</div>			

FIG. 45

Energy Management System

Version 5.06

02/23/2001 01:01:10 pm

SUSAN

HEC | Gas

December, 2000 | Accounting

Deal Details - (Change)

Deal ID: 66028

Product: Gas

Month: December / 2000

Contract: 3TEC Energy Corporation

3TEC OIL & GAS PURCHASE

Description: 12/23-31 3TEC

Service: Marketing

Status: (Accounting Phase)

Start Date: 12/23/2000

Thru Date: 12/31/2000

Status: Created

Confirm Report

Rollover Rules

General

Volumes

Prices

Correspondence

Ownership

Interests

Financial

Overrides

Calculation Results

Audit Information

Their Contact: Janna Calhoun, 713-821-7107

Our Contact: Leslie Vandagriff, 214-954-1430

Description: \$5.89" MANUAL NB .99

Comments:

Due:

Classifications

Deal Type: 3rd Party

Vol. Volatility: Baseload

Price Period: Spot

Interruptible: IT

☐ Accounting Use Only? (ie. No Invoices or Remittance Reports)
 ☐ Suppress Volume Calculations?
 ☐ Paik or Loan Deal?

All information relevant to this particular deal is shown on this screen. You have the option of directly changing this information (dependent on status of the month).

OK

Help...

Cancel

Page 42

103290" 60056260

Energy Management System

Version
(5.06)

02/23/2001 01:00:04 pm

HEC | Gas

December, 2000 | Accounting

Printer: Accounting Printer

Personal

Price Index

Company

Availability

Deals

Routing

Accounting

System

Actualization Steps

Export OGSYS Files...

Transaction Accounts...

Transaction Categories...

Transaction List...

Accounting Reports...

Start

Energy Management ...

1:00 PM

Month: December 12000

Type: Purchases

(Accounting Phase)

Lookup By ?

☒ Pipe

☐ Company

CCT

Volume Allocation

MMBTU MCF

Auto Allocate Volume
Use Volume Entered

Val: 0

From: 1

Feet: 1,000,000

Thru: 31

Post I

Post Prop

Match Mains

Columbia Gulf Transmission

Meter	Meter Well	Description	Deal	Act. ?	Actuals	Company
4161	4161	DEAN'S HILL, IRELAND	65115	<input checked="" type="checkbox"/>	19,300.00	DEAN'S HILL
4048	4048	VALENTINE	65220	<input checked="" type="checkbox"/>	121,100	IONEROWAN
4164	4164	VM267A	65050	<input checked="" type="checkbox"/>	11,000.00	CHEETAIR
4164	4164	VM267A	65370	<input checked="" type="checkbox"/>	192,000.00	CHEETAIR
P2048107	P2048107	Highland Mainline Pool	84872	<input checked="" type="checkbox"/>	904.00	REC
P3048107	P3048107	HIGHLAND ONSHORE	84872	<input checked="" type="checkbox"/>	0.00	REC
P2048107	P2048107	HIGHLAND ONSHORE	85028	<input checked="" type="checkbox"/>	0.00	REC
P3048107	P3048107	HIGHLAND ONSHORE	85753	<input checked="" type="checkbox"/>	30,000.00	AQUILAENER
P3048107	P3048107	HIGHLAND ONSHORE	85754	<input checked="" type="checkbox"/>	9,000.00	AQUILAENER

MeterWell

Day	Norm	Actual
Dec 01	931.00	937.00
Dec 02	931.00	937.00
Dec 03	931.00	937.00
Dec 04	931.00	937.00
Dec 05	931.00	937.00
Dec 06	931.00	937.00
Dec 07	931.00	937.00
Dec 08	931.00	937.00
Dec 09	931.00	937.00
Dec 10	931.00	937.00
Dec 11	931.00	937.00
Dec 12	931.00	937.00
Dec 13	931.00	937.00
Dec 14	931.00	937.00
Dec 15	931.00	937.00
Dec 16	931.00	937.00
Dec 17	931.00	937.00
Dec 18	931.00	937.00
Dec 19	931.00	937.00
Dec 20	931.00	937.00
Dec 21	931.00	937.00
Dec 22	931.00	937.00
Dec 23	931.00	937.00
Dec 24	931.00	937.00
Dec 25	931.00	937.00
Dec 26	931.00	937.00
Dec 27	931.00	937.00
Dec 28	931.00	937.00

You have the option of either entering the daily actual volumes directly next to their respective day (right side list) OR to use the volume allocation panel (right center of the window).

Pipe/Field and meter/well actual totals at bottom should match your

Right click the meter well grid to see other options.

T03290" 60056860

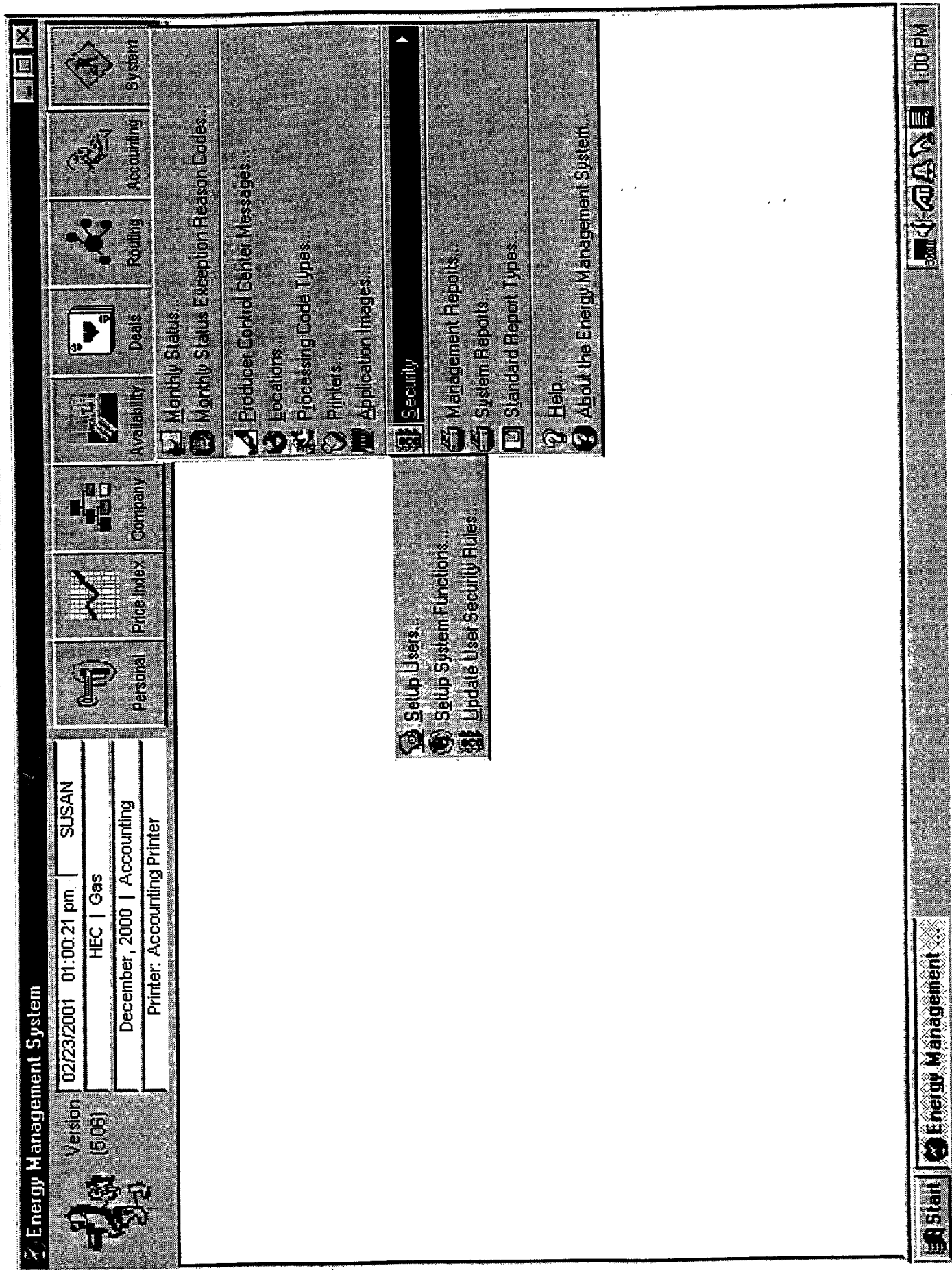
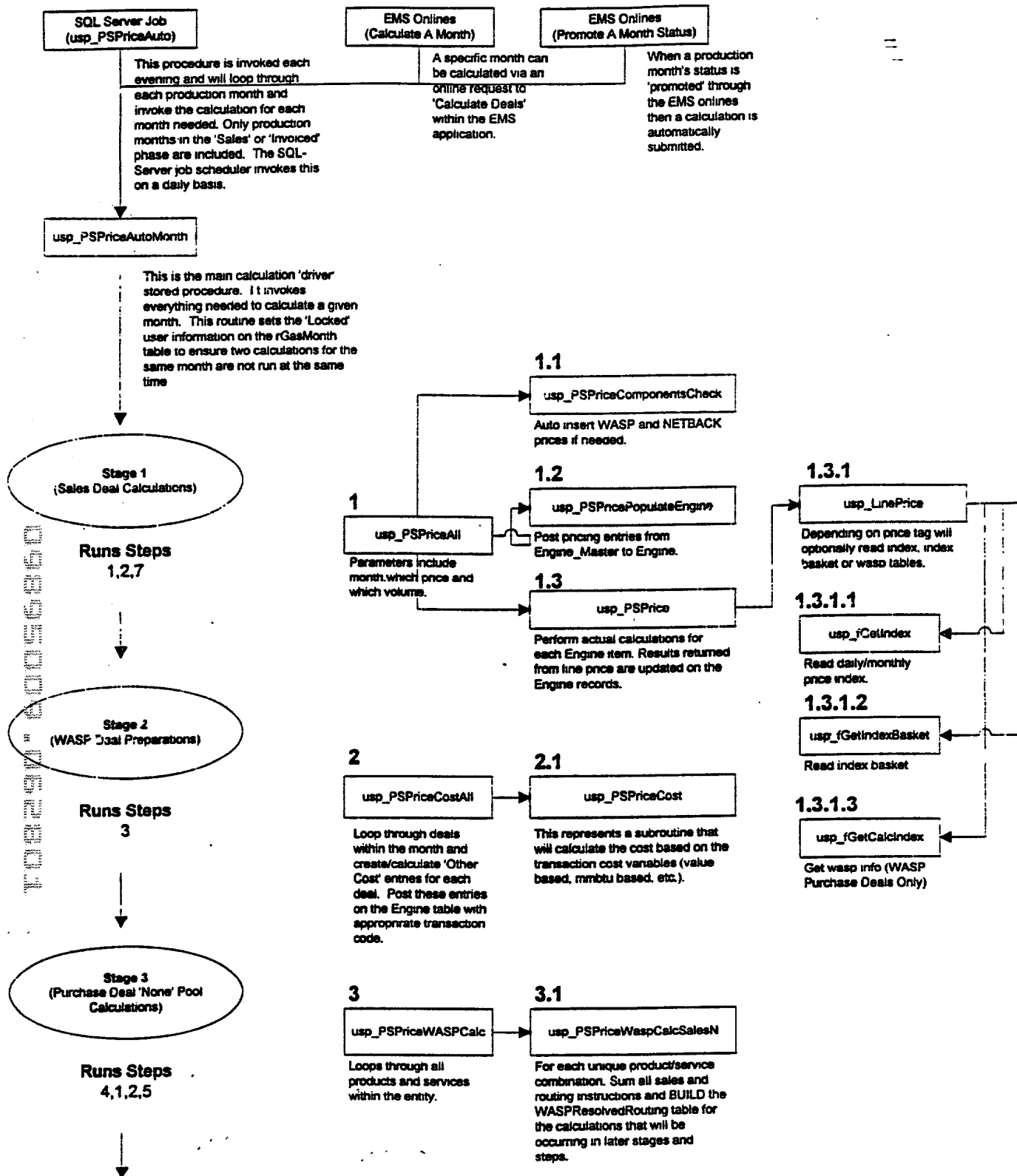


FIG. 4Q

WASP Calculation Diagram (1 of 2)



continued on next page

FIG. 5A